

Removing the Mask with SGRT The MD Anderson Experience THE UNIVERSITY OF TEXAS MDAnderson Cancer Center

#### WHO WE ARE

#### **FY22 QUICK FACTS**

MD Anderson is one of the world's most respected centers focused on cancer patient care, research, education, and prevention. The institution is part of The University of Texas System and is one of only 53 comprehensive cancer centers designated by the National Cancer Institute.

## 95 Radiation Oncologists

# 74 Physicists

172 RTT's including supervisors

## 80 Dosimetrists

60 Nurses

**Our Radiation Oncology Team** 



Main Campus Building- 11 linear accelerators, 2 Gamma Knife Treatment Machines, and 4 CT simulators. Ambulatory Care Building-(Across the street from Main Campus)- 6 linear accelerators, 1 MR Linac, 1 MR simulator, 2 CT simulators, and an HDR Suite

**Proton Therapy Center** (Down the street from our Main Campus)-4 Proton gantries, 1 linear accelerator, 1 CT simulator, 1 MR simulator

West Houston Campus-3 linear accelerators, 1 CT sim, Brachy

Sugar Land Campus-2 linear accelerators, 1 CT sim

**League City Campus-** 3 linear accelerators, 1 CT sim

**The Woodlands Campus-** 3 linear accelerators, 1 CT sim

Several sites throughout the Houston Area Locations

Throughout our sites, we have different vendors/capabilities.

Varian, Semiens, Phillips, GE, Elekta, GK, MRI, Mosaiq, VisionRT C-Rad



# MD Anderson's SGRT History

- First SGRT system 10+ years
- 4 AlignRT systems ACB (mainly used for breast)
- 1 AlignRT system Main ( installed 8/2022)
- 11 C-Rad systems HAL's
- 2 Future C-Rad systems new PTC facility



# Mask less Workflow, Why?

- Head and Neck, Lymphoma services
- Pathway for patients with claustrophobia, extreme cases needing Anesthesia
- Roughly 1/3 of our patient population treated with a mask require anxiety medication
- 2-5 patients a year treated under anesthesia
- Free up resources

# **New Process Workflow**



DIVISION OF RADIATION ONCOLOGY

DEPARTMENT O RADIATION THERAPY

SCOP

Mask-less/Mark less Head and Neck Treatment Guidelin

The purpose of this guideline is to outline the work-flow of a Mask-less/Mark less treatment utilizing SGF

This guideline applies to radiation therapists, medical dosimetrists, radiation physicists, and radiation oncologists in the HIN and Lymphoma services.

1/19/2023 H/N & L YM

4.4.4. Any Shifts made need to be imaged

4.5. Recapture post- shift alignment after every set of images (verification patient is not moving)
4.6. Treat the patient with the beam hold function activated. The field threshold details should be
Propr 2 of 2

#### MD ANDERSON CANCER CENTER

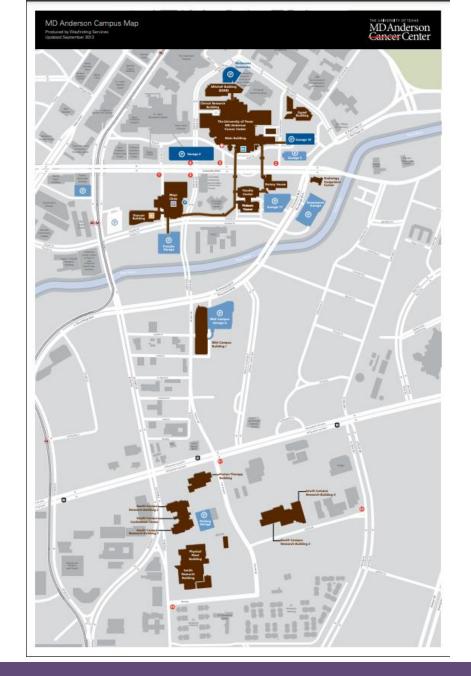
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# Goals and Metrics

- Reduce anxiety medication by 30%
- Eliminate need for anesthesia for mask patients
- Eventually move to a maskless workflow for all H/N patients

# Challenges

- Logistics
- Training
- Current resources
- Homogeneity
- Change enablement



# **Future Plans**

- Develop a robust training program
- Pinpoint techniques that SGRT benefits
- Investigate expansion



#### THE UNIVERSITY OF TEXAS MDAnderson Cancer Center